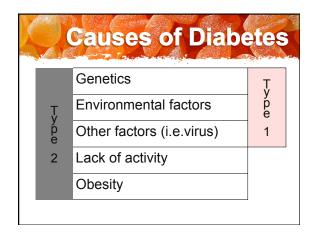
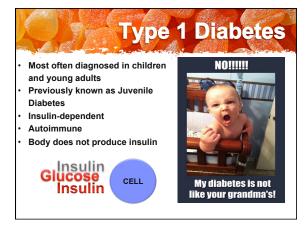
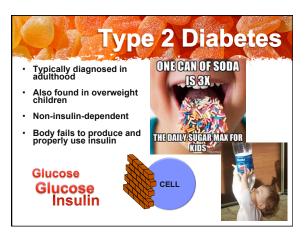
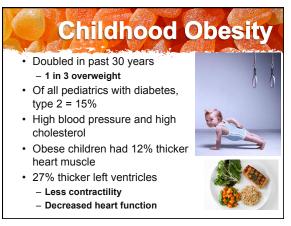


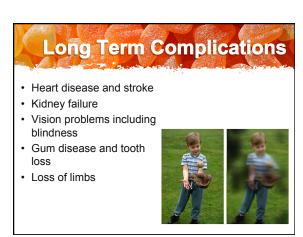
GYLCEMIC INDEX Number associated • Apple = 39 with a particular • Peach = 42 type of food that • Coke = 63 indicates the food's • Gatorade = 78 effect on a person's • Bagel = 72 blood glucose • Pizza = 80 • Corn Flakes = 93 • Glucose = 100 • Baked Potato = 111

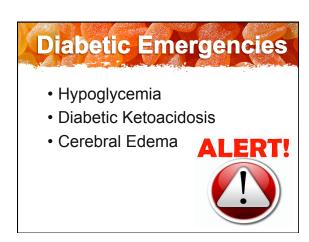


















- · Dispatch information:
 - 13 month old male with vomiting
- Mom reports: "He vomited twice in past hour but hasn't been feeling well for the past couple of days."



*Ethan's Story has been embellished slightly



- A Appearance
 - Thin child, laying in mom's arms, tracking with eyes but not moving very much
- · B Breathing
 - Rapid but not labored. No wheezing/stridor/ rhonchi
- C Circulation
 - Warm, dry, chapped lips





History

 Mom states that he has been more lethargic today and vomited up a large amount. Over the past few weeks she has been concerned that his clothes are looser but has been drinking and eating a lot. He drinks so much he is "peeing through his diapers"





Physical

- Neuro: Awake but lethargic, PERL
- · CV: fast, thready peripheral pulse
- Resp: Faster but no difficulty. Clear/equal breath sounds
- GI/GU: +vomiting, denies diarrhea, frequent diapers, stooling normally
- · Skin: lips chapped, tongue dry, poor skin turgor





• ECG: Sinus Tachycardia, no t-wave abnormality

· Blood sugar

378



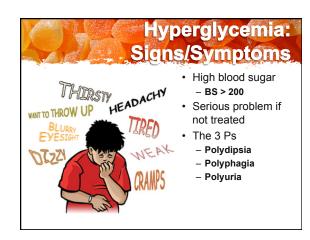


Transport to Appropriate Hospital

- Pediatric Facility

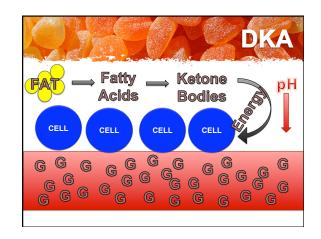






Hyperglycemia/DKA

- · Slow onset hours to days
- · Presence of ketones
- Causes
 - Insufficient insulin or missed doses
 - Stress response
- Infections/illnesses
- · Metabolic acidosis



Case #2 I don't want to be different

- Responding to a private residence for the seizure in a 14 year old male
- Friend's mother states that he was playing soccer with his friends out in yard. He was sitting down and fell backwards onto grass and seized for 5 minutes. No injury noted.

Pediatric Assessment Triangle

- A Appearance
 - Laying on ground not moving, pale
- B Breathing
 - Shallow ventilations, snoring
- C Circulation
 - diaphoretic





- · Playing around in yard with friend
- · Known diabetic
- Trying to contact parents
- Friend states that they have been playing soccer for the past 2 hours.
- · Unknown last oral intake
- Friend noted that he was complaining of a headache and went to sit down to check his blood sugar.



- Neuro: Unresponsive, pupils deviated with nystagmus
- · CV: thready, fast radial pulse
- Resp: snoring respirations better with positioning, clear breath sounds
- · Skin: pale, cool, diaphoretic





- Heart Rate: 92
- · Respiratory Rate: 16 with positioning
- SPO2: 95% -RA/positioning
- BP: 108/58
- · ECG: Sinus, no t-wave abnormality
- · Blood sugar

34





Dilution of Dextrose

- Dextrose 50% (1mL/kg)
 - Kids over 25 kg (around 8 years)
 - Look at vasculature
- Dextrose 25% (2mL/kg)
 - 1-8 years (10-25 kg)
 - Large syringe (Remember weight in kg)
 - 12 kg = 12 mL NS + 12 mL D50
 - Look at vasculature
- Dextrose 10-12.5% (4mL/kg)
 - Under one year

0.5 grams/kg

Hypoglycemia

- Low blood glucoseBS < 60
- Body doesn't have enough available glucose to produce energy for cells



Hypoglycemia

- · Relatively fast onset
- · Causes:
 - Too much insulin
 - Too little food
 - Not enough food for exercise needs
 - Missing meals/snacks
 - Stress, overexcitement

Case #3 Tired and out of Breath

- Dispatch: 9 year old with difficulty breathing
- Mom reports that he had a cough for the past couple of days but today he seems out of breath and is very tired



Pediatric Assessment Triangle

- A Appearance
 - Obese, awake to voice
- B Breathing
 - Fast, deep, +congested cough
- · C Circulation
 - Dry



History

- · He has been feeling poorly for 3 days
- · + cough & congestion
- Low grade fever
- Eating and drinking normally until today. Now decreased





- Neuro: Awake to voice, able to follow commands, lethargic, PERL
- · CV: strong, fast pulse
- · Resp: Diffuse Rhonchi
- · GI/GU: Abdominal pain
- · Skin: Dry mucous membranes



- · Heart Rate: 128
- Respiratory Rate: 52, deep
- SPO2: 95% on RA
- BP: 156/92
- · ECG: Sinus tachycardia with peaked t-waves
- · Blood sugar

"HIGH"





- · Support ABCs
- Fluid Bolus 20mL/kg
 - Child in 50% for weight @ 65 lbs (30kg)
 - This child is 132 lbs (60 kg)
 - 60 x 20 = 1200 mL (1.2 L)
- Bicarb controversial in pediatrics due to increased potential for cerebral edema
- Potassium may be high right now but will start shifting quickly.
 - Don't mess with it! (Wait for labs)

